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- (71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-
damm 94, 20099 Hamburg (DE).
- (71) Applicant (for all designated States except DE, US):
KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KÖHLER, Thomas**

[DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE). **BONTUS, Claas** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).

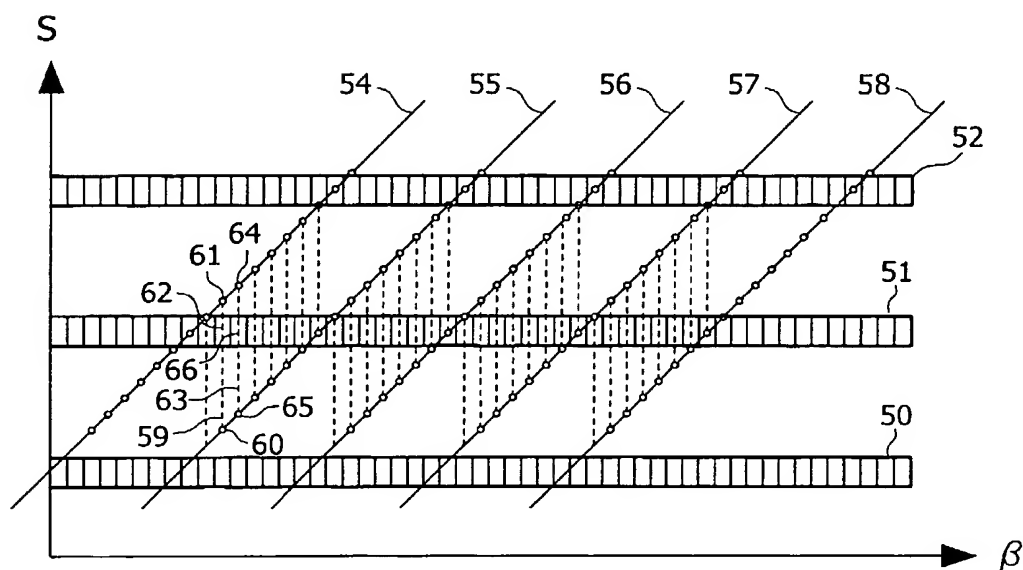
(74) Agent: **VOLMER, Georg**; Philips Intellectual Property & Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).

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(57) Abstract: Image quality is an important feature for CT scanning, in particular for helical cone-beam CT scanning. By using projection data acquired at two different positions of the focal spot of the radiation beam and rebinning that projection data from a first geometry to a second geometry the two sub-sets of projection data are combined to one rebinbed projection data set, thereby improving the radial resolution of the data set. Advantageously, according to an aspect of the present invention, a further rebinning may be performed, from the second geometry back to the first geometry, therefore resulting in a projection data set in the initial geometry with a higher radial resolution.

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 A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 411 670 B1 (BESSON-GUY-M)	1, 9, 11,
Y	25 June 2002 (2002-06-25)	13
	abstract	2
	column 1, line 49 - column 2, line 12	
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Y	EP 0 467 532 A (GENERAL ELECTRIC COMPANY)	2
	22 January 1992 (1992-01-22)	
	abstract	
	column 1, lines 33-45	
	column 2, line 38 - column 3, line 55	

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Gao, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>BESSON, G.M.: "CT image reconstruction from fan-parallel projection data" NUCLEAR SCIENCE SYMPOSIUM, 1998. CONFERENCE RECORD, 'Online! vol. 3, 1998, pages 1644-1648, XP002368068 Retrieved from the Internet: URL:http://ieeexplore.ieee.org/xpl/abs_fre.jsp?arNumber=773856> 'retrieved on 2006-02-14! abstract section I. "Introduction"</p>	1,9,11, 13
A	<p>JIANG HSIEH: "Optimization of detector geometry for aliasing artifact reduction in the third-generation CT" PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING SPIE-INT. SOC. OPT. ENG USA, vol. 3032, 1997, pages 204-212, XP002368069 ISSN: 0277-786X abstract section 1. "Introduction" figure 2</p>	1-14
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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